

Attorney's Docket: 2002DE313
Serial No.: 10859-580
Group: 1621
Response to Final Rejection Mailed 02/25/2005

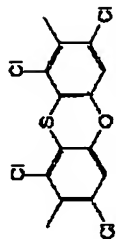
Amendments to the Claims

1. (Previously Presented) A method for the nuclear chlorination of ortho-xylene, which comprises reacting ortho-xylene with a chlorinating agent in the presence of at least one Friedel-Crafts catalyst and chlorine-substituted 2,8-dimethylphenoxathin as co-catalyst, wherein the ratio of 4-chloro- to 3-chloro-1,2-dimethylbenzene is at least 3:1.
2. (Previously Presented) The method as claimed in claim 1, wherein tetrachlorinated 2,8-dimethylphenoxathin is used.
3. (Previously Presented) The method as claimed in claim 1, wherein elemental chlorine or suluryl chloride is used as chlorinating agent.
4. (Previously Presented) The method as claimed in claim 1, wherein the co-catalyst is used in an amount of from 0.001 to 5% by weight based on the amount of the ortho-xylene used.
5. (Previously Presented) The method as claimed in claim 1, wherein the ratio of Friedel-Crafts catalyst or its precursor to the co-catalyst is in the range from 500:1 to 1:5.
6. (Previously Presented) The method as claimed in claim 1, wherein the method is carried out without addition of a solvent.
7. (Previously Presented) The method as claimed in claim 1, wherein the method is carried out at a temperature in the range from -20 to +120°C.

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8. (Previously Presented) The method as claimed in claim 1, wherein the amount of the chlorinating agent used is selected such that a degree of chlorination of significantly greater than 1 results.

9. (Previously Presented) The method as claimed in claim 2, wherein 1,3,7,9-tetrachloro-2,8-dimethylphenoxathin of the formula



is used.

10. (Previously Presented) The method as claimed in claim 2, wherein elemental chlorine or sulfuric chloride is used as chlorinating agent.

11. (Previously Presented) The method as claimed in claim 2, wherein the co-catalyst is used in an amount of from 0.001 to 5% by weight, based on the amount of the ortho-xylene used.

12. (Previously Presented) The method as claimed claim 2, wherein the ratio of Friedel-Crafts catalyst or its precursor to the co-catalyst is in the range from 500:1 to 1:5.

13. (Previously Presented) The method as claimed claim 3, wherein the method is carried out without addition of a solvent.

14. (Previously Presented) The method as claimed in claim 3, wherein the method is carried out at a temperature in the range from -20 to +120°C.

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15. (Previously Presented) The method as claimed in claim 3, wherein the amount of the chlorinating agent used is selected such that a degree of chlorination of significantly greater than 1 results.